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V.K. Goyal 5

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Vivek K. Goyal

Case: 5

Serial No.: 09/590,251

Filing Date: June 8, 2000

Title: Methods and Apparatus for Adaptive Signal
Processing Involving a Karhunen-Loève Basis

Group: To Be Assigned

Examiner: To Be Assigned

I hereby certify that this paper is being deposited on this date with the U.S. Postal Service as first class mail addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature: Leresa M. Hamlin Date: June 19, 2000

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Pursuant to 37 C.F.R. §§1.56, 1.97 and 1.98, Applicant's attorney wishes to bring to the attention of the Patent and Trademark Office the following documents listed on the accompanying Form PTO-1449. A copy of each listed document is enclosed.

1. J.-F. Yang et al., "Adaptive Eigensubspace Algorithms for Direction or Frequency Estimation and Tracking," IEEE Trans. Acoust. Speech Signal Proc., Vol. 36, No. 2, pp. 241-251, February 1988.

2. P.A. Regalia et al., "Rational Subspace Estimation Using Adaptive Lossless Filters," IEEE Trans. Signal Proc., Vol. 40, No. 10, pp. 2392-2405, October 1992.

3. J.-P. Delmas, "Performances Analysis of a Givens Parameterized Adaptive Eigenspace Algorithm," Signal Proc., Vol. 68, No. 1, pp. 87-105, July 1998.

4. J.-P. Delmas, "Adaptive Harmonic Jammer Canceler," IEEE Trans. Signal Proc., Vol. 43, No. 10, pp. 2323-2331, October 1995.

5. J.-P. Delmas, "Performances Analysis of Parameterized Adaptive Eigensubspace Algorithms," Proc. IEEE Int. Conf. Acoust., Speech and Signal Proc., Detroit, MI, pp. 2056-2059, May 1995.

6. J.-F. Yang et al., "Adaptive High-Resolution Algorithms For Tracking Nonstationery Sources Without the Estimation of Source Number," IEEE Trans. Signal Proc., Vol. 42, pp. 563-571, March 1994.

7. P.A. Regalia, "An Unbiased Equation Error Identifier and Reduced-Order Approximations," IEEE Trans. Signal Proc., Vol. 42, No. 6, pp. 1397-1412, June 1994.

8. B. Champagne, "Adaptive Eigendecomposition of Data Covariance Matrices Based on First-Order Perturbations," IEEE Trans. Signal Proc., Vol. 42, No. 10, pp. 2758-2770, October 1994.

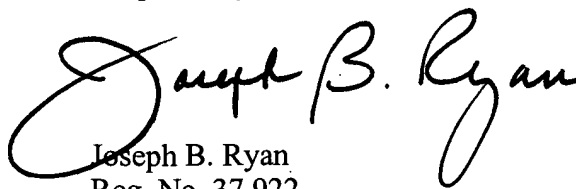
9. B. Yang, "Projection Approximation Subspace Tracking," IEEE Trans. Signal Proc., Vol. 43, No. 1, pp. 95-107, January 1995.

10. B. Champagne et al., "Plane Rotation-Based EVD Updating Schemes For Efficient Subspace Tracking," IEEE Trans. Signal Proc., Vol. 46, No. 7, pp. 1886-1900, July 1998.

It is believed that there is no fee due in conjunction with the filing of this Supplemental Information Disclosure Statement. In the event of non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** as required to correct the error.

The filing of this Supplemental Information Disclosure Statement shall not be construed as a representation that a search has been made, or as an admission that the information cited is considered to be material to patentability, or as a representation that no other material information exists.

Respectfully submitted,


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